The following listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1 (currently amended) A coating composition comprising:

A) 20-80 wt-% of at least one orthoester compound having at least one non-cyclic orthoester group and at least one free hydroxyl group per molecule, which compound is obtained by reacting

a) at least one orthoester compound

with

b) at least one diol with a number average molecular weight (Mn) of 200-1000 g/mol, wherein solely diols are used having hydroxyl groups with different reactivity and having more than 3 carbon atoms between the hydroxyl groups and wherein the diol is selected from the group consisting of the reaction product of hydroxy carboxylic acids with at least one acid group and at least one hydroxyl group in the molecule and epoxy group containing compounds, and the reaction product of hydroxy carboxylic acids with at least one acid group and at least one hydroxyl group and linear diols or branched diols.

B) 0-40 wt-% of at least one hydroxy-functional binder and/or hydroxy-functional reactive diluent, different from component A) and

C) 80-20 wt-% of at least one cross-linking agent with functional groups reactive with hydroxyl groups,

wherein the proportions of component A), B) and C) add up to 100 wt-%.

2. (original) The coating composition according to claim 1, wherein the at least one diol b) has a number average molecular weight (Mn) of 230-500 g/mol.

3. (original) The coating composition according to claim 1, wherein the orthoester compound a) is a compound selected from the group consisting of trimethyl orthoformate, triethyl orthoformate, trimethyl orthoacetate, triethyl orthoacetate and mixtures thereof.

4. (original) The coating composition according to claim 1, wherein the diol b) is the reaction product of hydroxy carboxylic acids with at least one acid group and at least one hydroxyl group in the molecule and epoxy group containing compounds.

5. (original) The coating composition according to claim 4, wherein the hydroxy carboxylic acid with at least one acid group and at least one hydroxyl group in the molecule is a compound selected from the group consisting of 2-hydroxy isobutyric acid, 2-hydroxy pivalic acid and mixtures thereof.

6. (original) The coating composition according to claim 4, wherein the epoxy group containing compounds is a compound selected from a group consisting of glycidyl ester of versatic acid, glycidyl ester of pivalic acid and mixtures thereof.

7. (original) The coating composition according to claim 1, wherein the diol b) is a reaction product of hydroxy carboxylic acids with at least one acid group and at least one hydroxyl group and linear or branched diols.

8. (original) The coating composition according to claim 7, wherein the linear or branched diol is a diol with 3 – 10 carbon atoms in the molecule.

9. (original) The coating composition according to claim 1, wherein component B) is a compound selected from the group consisting of hydroxy-functional poly(meth)acrylates, hydroxy-functional polyesters, hydroxy-functional polyurethanes and any mixture thereof.

10. (original) The coating composition according to claim 1, wherein component C) comprise polyisocyanates with free isocyanate groups.

11. (original) A process for the multilayer coating of a substrate to form a multilayer structure thereon comprising applying a coating composition according to claim 1 to form at least one layer of the multilayer structure.

12. (original) The process according to claim 11, comprising applying a coating composition according to claim 1 to form the clear coat layer of the multilayer structure.

13. (original) The process according to claim 11, wherein the substrate comprises vehicles or vehicle parts.